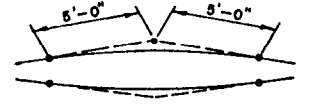
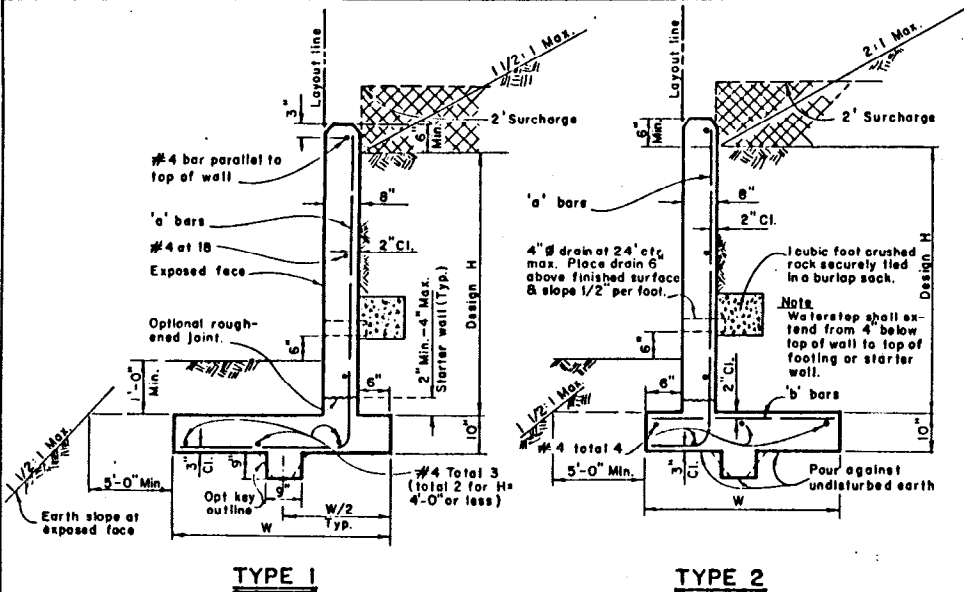
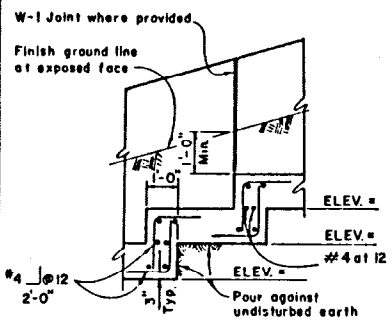


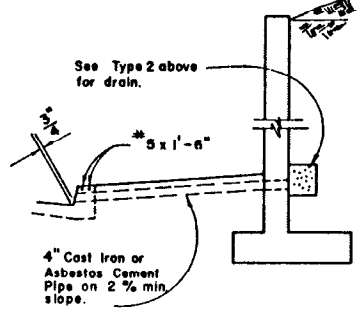
TABLE OF REINFORCING STEEL DIMENSIONS AND DATA			
Design H	4'-0"	5'-0"	6'-0"
W	3'-0"	3'-6"	4'-3"
a Bars	#4 @ 18"	#4 @ 12"	#5 @ 12"
b Bars	#4 @ 18"	#4 @ 18"	#4 @ 12"
Toe Pressure	1300psf	1600psf	1750psf



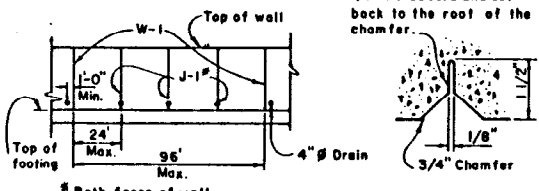
10' VERTICAL CURVE AT TOP OF SLOPE CHANGE
Where shown on the plans



FOOTING STEP DETAIL

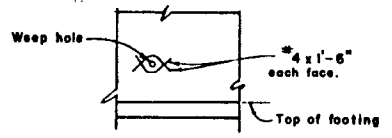


CURB OUTLET DRAIN

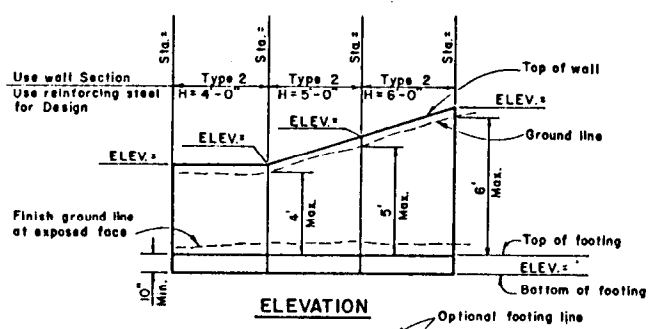


WALL JOINT ELEVATION

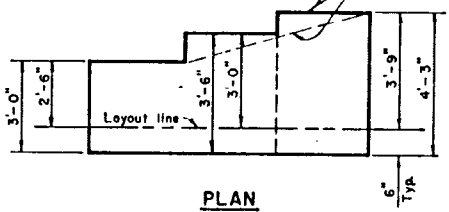
DETAIL J-1



DRAIN REINFORCING DETAIL

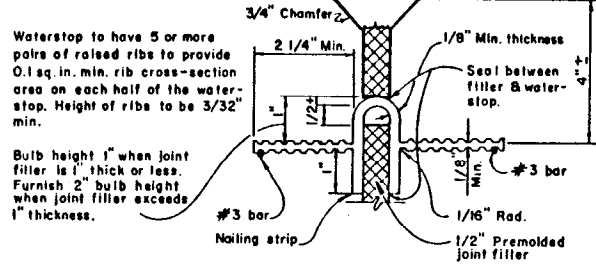


ELEVATION



TYPICAL LAYOUT EXAMPLE

Holes will be permitted in the outer 1/2" of the web for wires, rings, etc. The web to #3 reinforcing bars of 12" max. intervals to support the waterstop in proper position during concrete placement. Alternate detail may be submitted for approval of the Engineer.



DETAIL W-1

NOTES:

- Data for Type 1 and Type 2 walls are similar.
- Reinforcing steel shall be lapped 30 diameters.
- Bar cut-offs may be varied in increments of 6" in walls with changing heights.
- The inspector shall verify that the foundation material is as noted on the drawings. If other than shown, the inspector shall notify the Bridge and Structural Design Division.
- Ponding or jutting of backfill will not be permitted.
- Key may be omitted for walls (Design H) less than 3'-0".

DEPARTMENT OF PUBLIC WORKS

BUREAU OF ENGINEERING

CITY OF LOS ANGELES

REINFORCED CONCRETE RETAINING WALL (H=6'-0" MAX.)

STANDARD PLAN

B-3760

DESIGNED BY
G. ESQUER

DRAWN BY
G. ESQUER

CHECKED BY
E.L. PITKIN.

SUBMITTED July 8 1968

APPROVED July 12 1968

BY John D. Simons
ENGINEER BRIDGE & STRUCTURAL DIVISION

Philip V. King
DEPUTY CITY ENGINEER

PREPARED BY Ronald R. Harvey
ENGINEER OPENING & WORKING DIVISION

Lyall A. Pardee
CITY ENGINEER

SHEET 1 OF 2 SHEETS

NOTES TO DESIGNER

1. THE USE OF THIS STANDARD PLAN IS LIMITED TO WALLS OF DESIGN H OF 6 FEET OR LESS.
2. SPECIAL FOOTING DESIGN IS REQUIRED WHERE FOUNDATION MATERIAL IS INCAPABLE OF SUPPORTING TOE PRESSURE LOADS LISTED IN TABLE.
3. THE MAXIMUM TOE PRESSURE LOAD SHALL NOT EXCEED THAT ALLOWED BY THE CITY OF LOS ANGELES BUILDING CODE FOR THE TYPE OF FOUNDATION MATERIAL EXCEPT AS RECOMMENDED BY A SPECIAL FOUNDATION INVESTIGATION.
4. THE TYPE OF FOUNDATION MATERIAL SHALL BE NOTED ON THE PLANS.
5. THE MAXIMUM HEIGHT OF FOOTING STEPS SHALL BE LIMITED TO ONE-THIRD (1/3) THE HEIGHT OF THE SHORTER ADJACENT WALL SECTION. THE LOCATION OF FOOTING STEPS SHALL BE SHOWN ON THE PLANS.
6. IF THE DESIGNER ELECTS TO PROVIDE A LONGITUDINAL SLOPE ON THE FOOTING INSTEAD OF FOOTING STEPS, THE MAXIMUM LONGITUDINAL SLOPE OF THE FOOTING SHALL BE SIX PERCENT.
7. A BARRICADE FOR THE PROTECTION OF PEDESTRIANS SHALL BE SHOWN ON THE PLANS WHENEVER THE WALL SUPPORTS A PEDESTRIAN WALKWAY WHICH IS MORE THAN THREE FEET ABOVE THE ADJACENT GROUND.
8. WHERE VEHICULAR TRAFFIC IS ADJACENT TO THE TOP OF THE WALL, GUARD RAILS SHALL BE SHOWN ON THE PLANS AND SHALL BE SET BACK AT LEAST TWO FEET FROM THE FACE OF WALL.
9. THE CURB OUTLET DRAIN SHALL BE SPECIFIED ON THE PLANS WHENEVER THE DRAIN WOULD OTHERWISE OUTLET ON A PEDESTRIAN WALK. SPACING SHOULD NOT EXCEED 24 FEET ON CENTERS.

DESIGN DATA

STRESSES

$f_s = 20,000$ psi $f_c = 1,200$ psi $n = 10$

LOADINGS

THE WALLS ARE DESIGNED TO RESIST THE FORCES CAUSED BY EITHER TWO CONDITIONS OF LOADING:

CONDITION 1: WALLS SUPPORTING PRIVATE PROPERTY.

EARTH WT = 100 pcf
 E.F.P. = 30 pcf FOR LEVEL SURCHARGE
 = 43 pcf FOR 2:1 SURCHARGE
 = 55 pcf FOR 1-1/2:1 SURCHARGE

A VERTICAL COMPONENT OF ONE-THIRD THE HORIZONTAL FORCE IS ASSUMED TO ACT AT THE PLANE OF APPLICATION OF THE HORIZONTAL FORCE.

CONDITION 2: WALLS SUPPORTING PUBLIC PROPERTY.

EARTH WT = 120 pcf
 E.F.P. = 36 pcf + 2 FT. SURCHARGE

A VERTICAL COMPONENT OF ONE-FOURTH THE HORIZONTAL FORCE IS ASSUMED TO ACT AT THE PLANE OF APPLICATION OF THE HORIZONTAL FORCE.

FOOTING RESULTANT

THE RESULTANT OF ALL VERTICAL AND LATERAL FORCES PASSES THROUGH THE MIDDLE ONE-THIRD OF THE FOOTING.

DEPARTMENT OF PUBLIC WORKS
 BUREAU OF ENGINEERING CITY OF LOS ANGELES

REINFORCED CONCRETE RETAINING WALL (H=6'-0" MAX.)

STANDARD PLAN

B-3760

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CHECKED BY
 E. L. PITKIN

PREPARED BY Ronald B. Slattery
ENGINEER OPENING & WIDENING DIVISION

Lyall A. Pardee
CITY ENGINEER

SHEET 2 OF 2 SHEETS